

Listing Claims:

Claims 1-7 (cancelled)

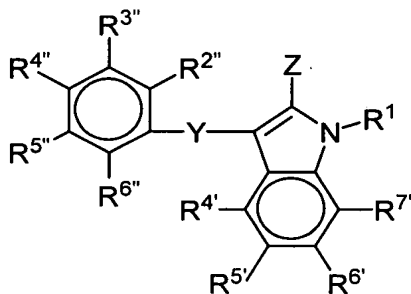
Claims 8-9 (withdrawn)

Claims 10-11 (cancelled)

Claims 12-13 (withdrawn)

Claims 14-18 (cancelled)

Claim 19 (currently amended): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein

R¹ is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH; -C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²; -C(=O)NH₂; -C(=W)NH₂; -C(=O)NHR²; -C(=W)NHR²; -C(=O)NR²R³; -C(=W)NR²R³; -C(=W)NH-(CH₂)_p-(amino acid); or -(CH₂)_p-(amino acid);

R^{4'}, R^{5'}, R^{6'}, R^{7'}, R^{2''}, R^{3''}, R^{4''}, R^{5''} and R^{6''} are each independently H; halo; -NO₂; -CN; -OH; -OR²; -SH; -SR²; -NH₂; -NHR²; -NR²R³; -NHSO₂-C₁₋₃alkyl; -NR²SO₂-C₁₋₃alkyl; -NHCO-C₁₋₃alkyl; -NR²CO-C₁₋₃alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH₃; CF₃; vinyl bromide; -CR²R²-S(O)_n-R³; -CR²R²NH₂; -CR²R²NHR²; -CR²R²NR²R³; -CR²R²-C(=O)R²; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH; -C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)-SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²; -C(=O)NH₂; -C(=W)NH₂; -C(=O)NHR²; -C(=W)NHR²; -C(=O)NR²R³; -C(=W)-NR²R³; -C(=W)NH(CH₂)_p-(amino acid); an amino acid; or -(CH₂)_p(amino acid);

wherein if $R^{5'}$ is F, Cl, Br, NO_2 , CN, OR^2 , NR^2R^2 , $NHSO_2-C_{1-3}alkyl$; or $NHCO-C_{1-3}alkyl$, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, $-C(=O)NH_2$; $-C(=W)-NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)NR^2R^3$; $-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; $-(CH_2)_p$ -(amino acid); $-C(=O)R^3$; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OR^3$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)-OR^2$; $-C(=O)-SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; $-CN$; or halo;

Y is O; $S(O)$ or $S(O)_2$;

each W is independently O; S; NH; NR^2 ; $-NR^2R^2$; $-N-CN$; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; $-N-OH$; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylheterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

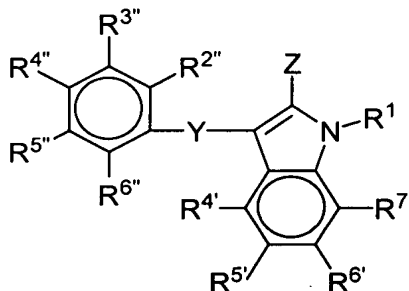
each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; $-OH$; $-OR^2$; $-SH$; $-SR^2$; oxime; hydrazine; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)OR^2$; $-C(=O)SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^2$; $-C(=W)-NR^2R^3$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}alkyl$; $-NR^2SO_2-C_{1-3}alkyl$; $-NHCO-C_{1-3}alkyl$; $-NR^2CO-C_{1-3}alkyl$; $-S(O)_n-R^3$; C_{1-3} alkoxy; C_{1-3} thioether; or an amino acid residue;

optionally in a pharmaceutically acceptable carrier or diluent.

Claim 20 (currently amended): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)OR^2$; $-C(=O)SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)NR^2R^3$; $-C(=W)NH-(CH_2)_p$ -(amino acid); or $-(CH_2)_p$ -(amino acid);

R^4 , R^5 , R^6 , R^7 , R^2 , R^3 , R^4 , R^5 and R^6 are each independently H; halo; $-NO_2$; $-CN$; $-OH$; $-OR^2$; $-SH$; $-SR^2$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}alkyl$; $-NR^2SO_2-C_{1-3}alkyl$; $-NHCO-C_{1-3}alkyl$; $-NR^2CO-C_{1-3}alkyl$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; alkacyl; optionally substituted or unsubstituted acyl; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)OR^2$; $-C(=O)-SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; or $-(CH_2)_p$ -(amino acid);

wherein if R^5 is F, Cl, Br, $-NO_2$, $-CN$, $-OR^2$, $-NR^2R^2$, $-NHSO_2-C_{1-3}alkyl$; or $-NHCO-C_{1-3}alkyl$, then at least one of R^4 , R^6 and R^7 is not hydrogen; or alternatively, wherein at least two of R^4 , R^5 , R^6 , R^7 are not hydrogen;

Z is optionally substituted or unsubstituted acyl, $-C(=O)NH_2$; $-C(=W)-NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)NR^2R^3$; $-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; $-(CH_2)_p$ -(amino acid); $-C(=O)R^3$; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OR^3$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)-OR^2$; $-C(=O)-SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; $-CN$; or halo;

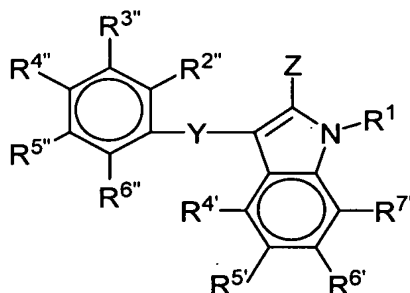
Y is O; S(O) or S(O)₂;
each W is independently O; S; NH; NR²; -NR²R²; -N-CN; -N-NH₂; -N-NHR²;
-N-NR²R³; -N-OH; or -N-OR²;
each R² is independently hydrogen; an optionally substituted or unsubstituted
branched or unbranched lower alkyl, alkenyl or alkynyl; CH₃; CF₃; or vinyl bromide;
each R³ is independently hydrogen; optionally substituted or unsubstituted branched
or unbranched alkyl, alkenyl or alkynyl; CH₃; CF₃; vinyl bromide; -CR²R²-S(O)_n-R²;
-CR²R²NH₂; -CR²R²NHR²; -CR²R²NR²R²; -CR²R²-C(=O)R²; optionally substituted or
unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted
or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylheterocycle; optionally
substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted
heterocycle-alkyl;
each n is independently 0, 1 or 2;
each p is independently 0, 1, 2, 3, 4 or 5; and
wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl,
lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkylheterocycle;
arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH;
-OR²; -SH; -SR²; oxime; hydrazine; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH;
-C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²;
-C(=O)NH₂; -C(=W)NH₂; -C(=O)-NHR²; -C(=W)NHR²; -C(=O)NR²R³; -C(=W)-NR²R³;
-NH₂; -NHR²; -NR²R³; -NHSO₂-C₁₋₃alkyl; -NR²SO₂-C₁₋₃alkyl; -NHCO-C₃alkyl;
-NR²CO-C₁₋₃alkyl; -S(O)_n-R³; C₁₋₃ alkoxy; C₁₋₃thioether; or an amino acid residue;
in combination and/or alternation with one or more other anti-HIV agent, optionally
in a pharmaceutically acceptable carrier or diluent.

Claim 21(original): The method of claim 20, wherein the other anti-HIV agent is a reverse transcriptase inhibitor.

Claim 22 (original): The method of claim 21, wherein the reverse transcriptase inhibitor induces a mutation lysine 103 → asparagine and/or tyrosine 181 → cysteine in HIV reverse transcriptase.

Claim 23 (currently amended): A method for the treatment of an HIV-infection in a host, wherein the HIV has a mutation at lysine 103 → asparagine and/or tyrosine 181 → cysteine

in HIV reverse transcriptase, comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)OR^2$; $-C(=O)SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)NR^2R^3$; $-C(=W)NH-(CH_2)_p$ -(amino acid); or $-(CH_2)_p$ -(amino acid);

R^4 , R^5 , R^6 , R^7 , R^2 , R^3 , R^4 , R^5 and R^6 are each independently H; halo; $-NO_2$; $-CN$; $-OH$; $-OR^2$; $-SH$; $-SR^2$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2C_{1-3}alkyl$; $-NR^2SO_2-C_{1-3}alkyl$; $-NHCO-C_{1-3}alkyl$; $-NR^2CO-C_{1-3}alkyl$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; alkacyl; optionally substituted or unsubstituted acyl; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)OR^2$; $-C(=O)-SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; or $-(CH_2)_p$ -(amino acid);

wherein if R^5 is F, Cl, Br, $-NO_2$, $-CN$, $-OR^2$, $-NR^2R^3$, $-NHSO_2-C_{1-3}alkyl$; or $-NHCO-C_{1-3}alkyl$, then at least one of R^4 , R^6 and R^7 is not hydrogen; or alternatively, wherein at least two of R^4 , R^5 , R^6 , R^7 are not hydrogen;

Z is optionally substituted or unsubstituted acyl, $-C(=O)NH_2$; $-C(=W)-NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)NR^2R^3$; $-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; $-(CH_2)_p$ -(amino acid); $-C(=O)R^3$; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OR^3$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)-OR^2$; $-C(=O)-SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; $-CN$; or halo;

Y is O; S(O) or S(O)₂;

each W is independently O; S; -NH₂; -NHR²; -NR²R²; -N-CN; -N-NH₂; -N-NHR²; -N-NR²R³; -N-OH; or -N-OR²;

each R² is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH₃; CF₃; or vinyl bromide;

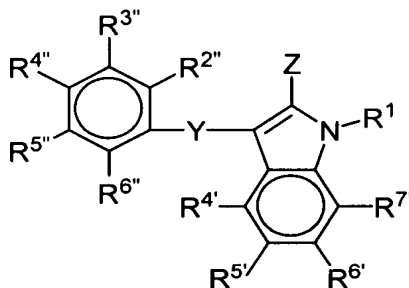
each R³ is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH₃; CF₃; vinyl bromide; -CR²R²-S(O)_n-R²; -CR²R²NH₂; -CR²R²NHR²; -CR²R²NR²R²; -CR²R²-C(=O)R²; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylheterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkylheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; -OR²; -SH; -SR²; oxime; hydrazine; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH; -C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²; -C(=O)NH₂; -C(=W)NH₂; -C(=O)-NHR²; -C(=W)NHR²; -C(=O)NR²R³; -C(=W)-NR²R³; -NH₂; -NHR²; -NR²R³ -NHSO₂-C₁₋₃alkyl; -NR²SO₂-C₁₋₃alkyl; -NHCO-C₁₋₃alkyl; -NR²CO-C₁₋₃alkyl -S(O)_n-R³; C₁₋₃ alkoxy; C₁₋₃thioether; or an amino acid residue; optionally in a pharmaceutically acceptable carrier or diluent.

Claim 24 (currently amended): A method for the treatment of an HIV-infection in a host, wherein the HIV is resistant to one or more reverse transcriptase ~~inhibitors~~ inhibitors, comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein

R^1 is hydrogen; acyl; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)OR^2$; $-C(=O)SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)NR^2R^3$; $-C(=W)NH-(CH_2)_p$ -(amino acid); or $-(CH_2)_p$ -(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; $-NO_2$; $-CN$; $-OH$; $-OR^2$; $-SH$; $-SR^2$; $-NH_2$; $-NHR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}alkyl$; $-NR^2SO_2-C_{1-3}alkyl$; $-NHCO-C_{1-3}alkyl$; $-NR^2CO-C_{1-3}alkyl$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; alkacyl; optionally substituted or unsubstituted acyl; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)OR^2$; $-C(=O)-SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$; $-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; or $-(CH_2)_p$ -(amino acid);

wherein if $R^{5'}$ is F, Cl, Br, $-NO_2$, $-CN$, $-OR^2$, $-NR^2R^3$, $-NHSO_2-C_{1-3}alkyl$; or $-NHCO-C_{1-3}alkyl$, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, $-C(=O)NH_2$; $-C(=W)-NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)NR^2R^3$; $-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; $-(CH_2)_p$ -(amino acid); $-C(=O)R^3$; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OR^3$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)-OR^2$; $-C(=O)-SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^3$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; $-CN$; or halo;

Y is O; S(O) or S(O)₂;

each W is independently O; S; NH; NR^2 ; $-NR^2R^2$; $-N-CN$; $-N-NH_2$; $-N-NHR^2$; $-N-NR^2R^3$; $-N-OH$; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$; $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted

or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylheterocycle;
optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted
heterocycle-alkyl;

each n is independently 0, 1 or 2;

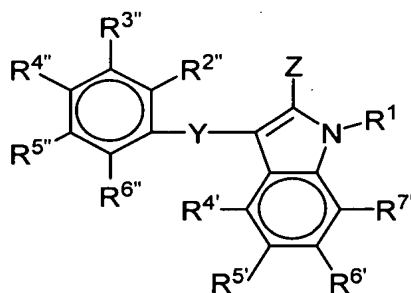
each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl,
lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkylheterocycle;
arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH;
-OR²; -SH; -SR²; oxime; hydrazine; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH;
-C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²;
-C(=O)NH₂; -C(=W)NH₂; -C(=O)-NHR²; -C(=W)NHR²; -C(=O)NR²R³; -C(=W)-NR²R³;
-NH₂; -NHR²; -NR²R³; -NHSO₂-C₁₋₃alkyl; -NR²SO₂-C₁₋₃alkyl; -NHCO-C₁₋₃alkyl;
-NR²CO-C₁₋₃alkyl; -S(O)_n-R³; C₁₋₃ alkoxy; C₁₋₃thioether; or an amino acid residue;

in combination and/or alternation with one or more other anti-HIV agent, optionally
in a pharmaceutically acceptable carrier or diluent.

Claims 25-26 (withdrawn)

Claim 27 (currently amended): A method for the treatment of an HIV-infection in a host,
wherein the HIV is resistant to one or more reverse transcriptase ~~inhibitor(s)~~ inhibitors,
comprising administering to said host an effective anti-HIV treatment amount of a compound
of formula (I):



or a pharmaceutically acceptable salt thereof, wherein

R¹ is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH;
-C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²;
-C(=O)NH₂; -C(=W)NH₂; -C(=O)NHR²; -C(=W)NHR²; -C(=O)NR²R³; -C(=W)NR²R³;
-C(=W)NH-(CH₂)_p-(amino acid); or -(CH₂)_p-(amino acid);

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$, $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; $-\text{NO}_2$; $-\text{CN}$; $-\text{OH}$; $-\text{OR}^2$; $-\text{SH}$; $-\text{SR}^2$; $-\text{NH}_2$; $-\text{NHR}^2$; $-\text{NR}^2\text{R}^3$; $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NR}^2\text{SO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NHCO-C}_{1-3}\text{alkyl}$; $-\text{NR}^2\text{CO-C}_{1-3}\text{alkyl}$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-\text{CR}^2\text{R}^2\text{-S(O)}_n\text{-R}^3$; $-\text{CR}^2\text{R}^2\text{NH}_2$; $-\text{CR}^2\text{R}^2\text{NHR}^2$; $-\text{CR}^2\text{R}^2\text{NR}^2\text{R}^3$; $-\text{CR}^2\text{R}^2\text{-C(=O)R}^2$; alkacyl; optionally substituted or unsubstituted acyl; $-\text{C(=O)H}$; $-\text{C(=W)H}$; $-\text{C(=O)R}^2$; $-\text{C(=W)R}^2$; $-\text{C(=O)OH}$; $-\text{C(=W)OH}$; $-\text{C(=O)OR}^2$; $-\text{C(=W)OR}^2$; $-\text{C(=O)-SH}$; $-\text{C(=W)SH}$; $-\text{C(=O)SR}^2$; $-\text{C(=W)SR}^2$; $-\text{C(=O)NH}_2$; $-\text{C(=W)NH}_2$; $-\text{C(=O)NHR}^2$; $-\text{C(=W)NHR}^2$; $-\text{C(=O)NR}^2\text{R}^3$; $-\text{C(=W)-NR}^2\text{R}^3$; $-\text{C(=W)NH(CH}_2)_p\text{-(amino acid)}$; an amino acid; or $-(\text{CH}_2)_p\text{(amino acid)}$;

~~wherein if $R^{5'}$ is F, Cl, Br, NO_2 , CN , OR^2 , NR^2R^2 , $\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; or $\text{NHCO-C}_{1-3}\text{alkyl}$, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively,~~
wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, $-\text{C(=O)NH}_2$; $-\text{C(=W)-NH}_2$; $-\text{C(=O)NHR}^2$; $-\text{C(=W)NHR}^2$; $-\text{C(=O)NR}^2\text{R}^3$; $-\text{C(=W)NR}^2\text{R}^3$; $-\text{C(=W)NH(CH}_2)_p\text{-(amino acid)}$; an amino acid; $-(\text{CH}_2)_p\text{-(amino acid)}$; $-\text{C(=O)R}^3$; $-\text{C(=O)H}$; $-\text{C(=W)H}$; $-\text{C(=O)R}^2$; $-\text{C(=W)R}^2$; $-\text{C(=O)OR}^3$; $-\text{C(=O)OH}$; $-\text{C(=W)OH}$; $-\text{C(=O)OR}^2$; $-\text{C(=W)-OR}^2$; $-\text{C(=O)-SH}$; $-\text{C(=W)SH}$; $-\text{C(=O)SR}^2$; $-\text{C(=W)SR}^2$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-\text{CR}^2\text{R}^2\text{-S(O)}_n\text{-R}^3$; $-\text{CR}^2\text{R}^2\text{NH}_2$; $-\text{CR}^2\text{R}^2\text{NHR}^2$; $-\text{CR}^2\text{R}^2\text{NR}^2\text{R}^3$; $-\text{CR}^2\text{R}^2\text{-C(=O)R}^2$; $-\text{CN}$; or halo;

Y is O; S(O) or S(O)₂;

each W is independently O; S; NH; NR^2 ; $-\text{NR}^2\text{R}^2$; $-\text{N-CN}$; $-\text{N-NH}_2$; $-\text{N-NHR}^2$; $-\text{N-NR}^2\text{R}^3$; $-\text{N-OH}$; or $-\text{N-OR}^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; or vinyl bromide;

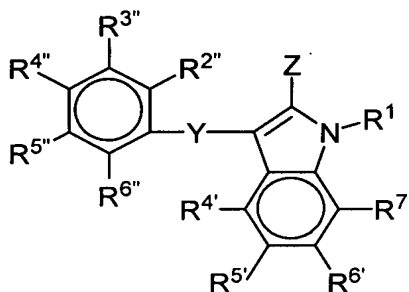
each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-\text{CR}^2\text{R}^2\text{-S(O)}_n\text{-R}^2$; $-\text{CR}^2\text{R}^2\text{NH}_2$; $-\text{CR}^2\text{R}^2\text{NHR}^2$; $-\text{CR}^2\text{R}^2\text{NR}^2\text{R}^2$; $-\text{CR}^2\text{R}^2\text{-C(=O)R}^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylheterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkylheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; -OH; -OR²; -SH; -SR²; oxime; hydrazine; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH; -C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²; -C(=O)NH₂; -C(=W)NH₂; -C(=O)-NHR²; -C(=W)-NHR²; -C(=O)NR²R³; -C(=W)-NR²R³; -NH₂; -NHR²; -NR²R³; -NHSO₂-C₁₋₃alkyl; -NR²SO₂-C₁₋₃alkyl; -NHCO-C₁₋₃alkyl; -NR²CO-C₁₋₃alkyl; -S(O)_n-R³; C₁₋₃alkoxy; C₁₋₃thioether; or an amino acid residue; optionally in a pharmaceutically acceptable carrier or diluent.

Claim 28 (currently amended): A method for the treatment of an HIV-infection in a host, wherein the HIV has a mutation at lysine 103 → asparagine and/or tyrosine 181 → cysteine in HIV reverse transcriptase, comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein

R¹ is hydrogen; acyl; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH; -C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²; -C(=O)NH₂; -C(=W)NH₂; -C(=O)NHR²; -C(=W)NHR²; -C(=O)NR²R³; -C(=W)NR²R³; -C(=W)NH-(CH₂)_p-(amino acid); or -(CH₂)_p-(amino acid);

R^{4'}, R^{5'}, R^{6'}, R^{7'}, R^{2''}, R^{3''}, R^{4''}, R^{5''} and R^{6''} are each independently H; halo; -NO₂; -CN; -OH; -OR²; -SH; -SR²; -NH₂; -NHR²; -NR²R³; -NHSO₂-C₁₋₃alkyl; -NR²SO₂-C₁₋₃alkyl; -NHCO-C₁₋₃alkyl; -NR²CO-C₁₋₃alkyl; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH₃; CF₃; vinyl bromide; -CR²R²-S(O)_n-R³; -CR²R²NH₂; -CR²R²NHR²; -CR²R²NR²R³; -CR²R²-C(=O)R²; alkacyl; optionally substituted or unsubstituted acyl; -C(=O)H; -C(=W)H; -C(=O)R²; -C(=W)R²; -C(=O)OH; -C(=W)OH; -C(=O)OR²; -C(=W)OR²; -C(=O)-SH; -C(=W)SH; -C(=O)SR²; -C(=W)SR²; -C(=O)NH₂;

$-C(=W)NH_2$; $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$;

$-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; or $-(CH_2)_p$ -(amino acid);

~~wherein if $R^{5'}$ is F, Cl, Br, NO_2 , CN, OR^2 , NR^2R^2 , $NHSO_2$ - C_{1-3} alkyl, or $NHCO$ - C_{1-3} alkyl, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively,~~
wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is optionally substituted or unsubstituted acyl, $-C(=O)NH_2$; $-C(=W)-NH_2$;
 $-C(=O)NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)NR^2R^3$; $-C(=W)NH(CH_2)_p$ -(amino acid); an amino acid; $-(CH_2)_p$ -(amino acid); $-C(=O)R^3$; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$;
 $-C(=W)R^2$; $-C(=O)OR^3$; $-C(=O)OH$; $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)-OR^2$; $-C(=O)-SH$;
 $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^3$;
 $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^3$; $-CR^2R^2-C(=O)R^2$; $-CN$; or halo;

Y is O; S(O) or S(O)₂;

each W is independently O; S; NH; NR^2 ; $-NR^2R^2$; $-N-CN$; $-N-NH_2$; $-N-NHR^2$;
 $-N-NR^2R^3$; $-N-OH$; or $-N-OR^2$;

each R^2 is independently hydrogen; an optionally substituted or unsubstituted branched or unbranched lower alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; or vinyl bromide;

each R^3 is independently hydrogen; optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl; CH_3 ; CF_3 ; vinyl bromide; $-CR^2R^2-S(O)_n-R^2$;
 $-CR^2R^2NH_2$; $-CR^2R^2NHR^2$; $-CR^2R^2NR^2R^2$; $-CR^2R^2-C(=O)R^2$; optionally substituted or unsubstituted aryl; optionally substituted or unsubstituted heterocycle; optionally substituted or unsubstituted alkylaryl; optionally substituted or unsubstituted alkylheterocycle; optionally substituted or unsubstituted aralkyl; or optionally substituted or unsubstituted heterocycle-alkyl;

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

wherein the optionally substituted branched or unbranched alkyl, alkenyl, alkynyl, lower alkyl, lower alkenyl; lower alkynyl; acyl; aryl; heterocycle; alkaryl; alkylheterocycle; arylalkyl; or alkylheterocycle optionally is substituted with one or more of halogen; $-OH$;
 $-OR^2$; $-SH$; $-SR^2$; oxime; hydrazine; $-C(=O)H$; $-C(=W)H$; $-C(=O)R^2$; $-C(=W)R^2$; $-C(=O)OH$;
 $-C(=W)OH$; $-C(=O)OR^2$; $-C(=W)OR^2$; $-C(=O)SH$; $-C(=W)SH$; $-C(=O)SR^2$; $-C(=W)SR^2$;
 $-C(=O)NH_2$; $-C(=W)NH_2$; $-C(=O)-NHR^2$; $-C(=W)NHR^2$; $-C(=O)NR^2R^3$; $-C(=W)-NR^2R^3$;

$-\text{NH}_2$; $-\text{NHR}^2$; $-\text{NR}^2\text{R}^3$; $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NR}^2\text{SO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NHCO-C}_{1-3}\text{alkyl}$;
 $-\text{NR}^2\text{CO-C}_{1-3}\text{alkyl}$; $-\text{S(O)}_n\text{-R}$; C_{1-3} alkoxy; C_{1-3} thioether; or an amino acid residue;

in combination and/or alternation with one or more other anti-HIV agent, optionally
in a pharmaceutically acceptable carrier or diluent.

Claim 29 (original): The method of any one of claims 19-28 wherein the host is a human.

Claim 30 (currently amended): The method of any one of claims 19 or 24 wherein:

R^1 is hydrogen;

$\text{R}^{4'}$, $\text{R}^{5'}$, $\text{R}^{6'}$, $\text{R}^{7'}$ are each independently H; halo; $-\text{NO}_2$; $-\text{CN}$; $-\text{OR}^2$; $-\text{NR}^2\text{R}^3$;
 $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NHCO-C}_{1-3}\text{alkyl}$; oxime, hydrazine, or C_{1-3} alkyl or alkenyl optionally
substituted with one or more of $-\text{OH}$, $-\text{SH}$, $-\text{C(O)H}$, $-\text{COOH}$, halogen, $-\text{NR}^2\text{R}^2$, $-\text{C}_{1-3}$ alkoxy or
 C_{1-3} thioether, ~~wherein if $\text{R}^{5'}$ is F, Cl, Br, $-\text{NO}_2$, $-\text{CN}$, $-\text{OR}^2$, $-\text{NR}^2\text{R}^2$, $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$, or
 $-\text{NHCO-C}_{1-3}\text{alkyl}$, then at least one of $\text{R}^{4'}$, $\text{R}^{6'}$ and $\text{R}^{7'}$ is not hydrogen; or alternatively,~~
wherein at least two of $\text{R}^{4'}$, $\text{R}^{6'}$ or $\text{R}^{7'}$ is not hydrogen;

$\text{R}^{2'}$, $\text{R}^{3'}$, $\text{R}^{4'}$, $\text{R}^{5'}$ and $\text{R}^{6'}$ are each independently H; halo; $-\text{NO}_2$; $-\text{CN}$; $-\text{OH}$; $-\text{OR}^2$;
 $-\text{NR}^2\text{R}^3$; $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NHCO-C}_{1-3}\text{alkyl}$; $\text{C}_{1-5}\text{alkoxy}$; oxime, hydrazine, $-\text{C}_{1-5}\text{alkyl}$ or
alkenyl optionally substituted with one or more of $-\text{OH}$, $-\text{SH}$, $-\text{C(O)H}$, $-\text{COOH}$, halogen,
 $-\text{NR}^2\text{R}^2$, $-\text{C}_{1-5}$ thioether or $-\text{C}_{1-5}$ alkoxy,

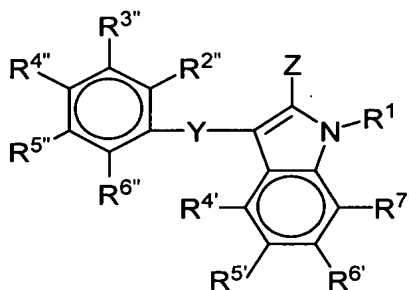
Z is $-\text{CN}$, $-\text{C(=W)NR}^2\text{R}^3$, $-\text{C(=O)R}^3$, $-\text{C(=O)OR}^3$, $-\text{CR}^2\text{R}^2\text{-S(O)}_n\text{-R}^3$, $-\text{CR}^2\text{R}^2\text{NHR}^2$,
 $\text{CR}^2\text{R}^2\text{-CO-R}^2$ or substituted or unsubstituted lower alkyl;

Y is O; S(O) or S(O)₂;

each W is independently O; S; $-\text{N-CN}$ or $-\text{N-OR}^2$; and

each R^2 is independently hydrogen or C_{1-3} alkyl.

Claim 31 (currently amended): A method for the treatment of an HIV infection in a host
comprising administering to said host an effective anti-HIV treatment amount of a compound
of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

$R^{4'}$, $R^{5'}$, $R^{7'}$ are each independently H; halo; $-\text{NO}_2$; $-\text{CN}$; $-\text{OR}^2$; $-\text{NR}^2\text{R}^3$;

$-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NHCO-C}_{1-3}\text{alkyl}$; oxime, hydrazine, or C_{1-3} alkyl or alkenyl optionally substituted with one or more of $-\text{OH}$, $-\text{SH}$, $-\text{C(O)H}$, $-\text{COOH}$, halogen, $-\text{NR}^2\text{R}^2$, $-\text{C}_{1-3}$ alkoxy or C_{1-3} thioether, ~~wherein if $R^{5'}$ is F, Cl, Br, $-\text{NO}_2$, $-\text{CN}$, $-\text{OR}^2$, $-\text{NR}^2\text{R}^2$, $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; or $-\text{NHCO-C}_{1-3}\text{alkyl}$, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively,~~ wherein at least two of $R^{4'}$, $R^{6'}$ or $R^{7'}$ is not hydrogen;

$R^{6'}$ is H; halo; $-\text{NO}_2$; $-\text{CN}$; $-\text{NR}^2\text{R}^3$; $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NHCO-C}_{1-3}\text{alkyl}$; oxime, hydrazine, or C_{1-3} alkyl or alkenyl optionally substituted with one or more of $-\text{OH}$, $-\text{SH}$, $-\text{C(O)H}$, $-\text{COOH}$, halogen, $-\text{NR}^2\text{R}^2$, $-\text{C}_{1-3}$ alkoxy or C_{1-3} thioether;

$R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; $-\text{NO}_2$; $-\text{CN}$; $-\text{OR}^2$; $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NHCO-C}_{1-3}\text{alkyl}$; oxime, hydrazine, $-\text{C}_{1-5}$ alkyl or alkenyl optionally substituted with one or more of $-\text{OH}$, $-\text{SH}$, $-\text{C(O)H}$, $-\text{COOH}$, halogen, $-\text{NR}^2\text{R}^2$, $-\text{C}_{1-5}$ thioether or $-\text{C}_{1-5}$ alkoxy,

Z is $-\text{C(=W)NR}^2\text{R}^3$ or $-\text{C(=O)R}^3$; $-\text{CR}^2\text{R}^2\text{NHR}^2$, $\text{CR}^2\text{R}^2\text{-CO-R}^2$ or substituted or unsubstituted lower alkyl;

Y is O or S(O)_n ;

each W is independently O; S; $-\text{N-CN}$ or $-\text{N-OR}^2$;

each R^2 is independently hydrogen or C_{1-3} alkyl; and

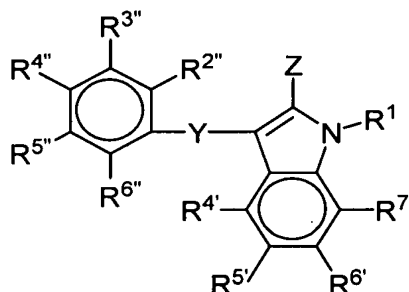
each R^3 is independently C_{1-5} alkyl, C_{1-5} alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of $\text{C(O)NR}^2\text{R}^2$, $-\text{NR}^2\text{R}^2$, $-(\text{CH}_2)_m\text{C(O)NR}^2\text{R}^2$, $(\text{CH}_2)_m\text{C(=W)-NH(CH}_2)_p\text{-amino acid}$);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is 1, 2, 3, 4 or 5.

Claim 32 (currently amended): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

R^4 , R^5 , R^6 , R^7 are each independently H; halo; $-NO_2$; $-CN$; $-OR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}alkyl$; $-NHCO-C_{1-3}alkyl$; oxime, hydrazine, or $C_{1-3}alkyl$ or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-3}alkoxy$ or $C_{1-3}thioether$, ~~wherein if $R^{5'}$ is F, Cl, Br, $-NO_2$, $-CN$, $-OR^2$, $-NR^2R^2$, $-NHSO_2-C_{1-3}alkyl$; or $-NHCO-C_{1-3}alkyl$, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively,~~ wherein at least two of $R^{4'}$, $R^{6'}$ or $R^{7'}$ is not hydrogen;

R^2 , R^3 , R^4 , R^5 and R^6 are each independently H; halo; $-NO_2$; $-CN$; $-OH$; $-OR^2$; $-NR^2R^3$; $-NHSO_2-C_{1-3}alkyl$; $-NHCO-C_{1-3}alkyl$; $C_{1-5}alkoxy$; oxime, hydrazine, $-C_{1-5}alkyl$ or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-5}thioether$ or $-C_{1-5}alkoxy$;

Z is $-C(=W)NR^2R^3$ or $-C(=O)R^3$; $-CR^2R^2NHR^2$, $CR^2R^2-CO-R^2$ or substituted or unsubstituted lower alkyl;

Y is O or $S(O)_n$;

each W is independently O; S; $-N-CN$ or $-N-OR^2$;

each R^2 is independently hydrogen or $C_{1-3}alkyl$; and

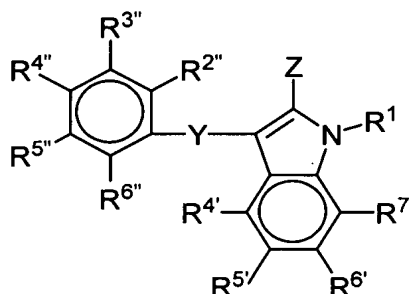
each R^3 is independently $C_{1-5}alkyl$, $C_{1-5}alkenyl$, aryl or heterocycle unsubstituted or substituted with one or more of $C(O)NR^2R^2$, $-NR^2R^2$, $-(CH_2)_mC(O)NR^2R^2$, $-(CH_2)_mC(=W)-NH(CH_2)_p-amino\ acid$);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is 1, 2, 3, 4 or 5.

Claim 33 (currently amended): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

R^4 , R^5 , R^6 , R^7 are each independently H or halo;

R^2 , R^3 , R^4 , R^5 and R^6 are each independently H; halo; $-NO_2$; $-CN$; $-OR^2$; $-NHSO_2-C_{1-3}alkyl$; $-NHCO-C_{1-3}alkyl$; oxime, hydrazine, $-C_{1-5}alkyl$ or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-5}thioether$ or $-C_{1-5}alkoxy$,

~~wherein if $R^{5'}$ is halo, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively,~~ wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is $-C(=W)NR^2R^3$, $-C(=O)R^3$ or $-CR^2R^2NHR^2$;

Y is O or $S(O)_n$;

each W is independently O; S; $-N-CN$ or $-N-OR^2$;

each R^2 is independently hydrogen or $C_{1-3}alkyl$;

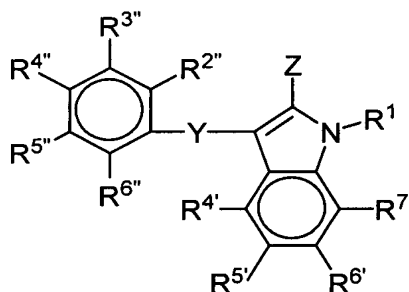
each R^3 is independently $C_{1-5}alkyl$, $C_{1-5}alkenyl$, aryl or heterocycle unsubstituted or substituted with one or more of $C(O)NR^2R^2$, $-NR^2R^2$, $-(CH_2)_mC(O)NR^2R^2$, $-(CH_2)_mC(=W)-NH(CH_2)_p-amino\ acid$);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is independently 0, 1, 2, 3, 4 or 5.

Claim 34 (currently amended): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R¹ is hydrogen;

R⁴', R⁵', R⁶', R⁷' are each independently H or halo;

R²'', R³'', R⁴'', R⁵'' and R⁶'' are each independently H; halo; -NO₂; -CN; -OR²;
-NHSO₂-C₁-₃alkyl; -NHCO-C₁-₃alkyl; oxime, hydrazine, -C₁-₅ alkyl or alkenyl optionally
substituted with one or more of -OH, -SH, -C(O)H, -COOH, halogen, -NR²R², -C₁-₅ thioether
or -C₁-₅ alkoxy,

~~wherein if R⁵' is halo, then at least one of R⁴', R⁶' and R⁷' is not hydrogen; or
alternatively, wherein at least two of R⁴', R⁵', R⁶', R⁷' are not hydrogen;~~

Z is -C(=O)R³;

Y is O or S(O)ₙ;

each W is independently O; S; -N-CN or -N-OR²;

each R² is independently hydrogen or C₁-₃ alkyl;

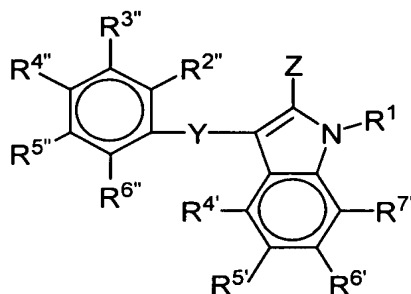
each R³ is independently C₁-₅ alkyl, C₁-₅ alkenyl, aryl or heterocycle unsubstituted or
substituted with one or more of C(O)NR²R², -NR²R², -(CH₂)ₘC(O)NR²R²,
-(CH₂)ₘC(=W)-NH(CH₂)ₚ-amino acid);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is independently 0, 1, 2, 3, 4 or 5.

Claim 35 (currently amended): A method for the treatment of an HIV infection in a host
comprising administering to said host an effective anti-HIV treatment amount of a compound
of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R¹ is hydrogen;

R⁴', R⁵', R⁶', R⁷' are each independently H or halo;

R²'', R³'', R⁴'', R⁵'' and R⁶'' are each independently H; halo; or -C₁-₅ alkyl or alkenyl optionally substituted with one or more of -OH, -SH, -C(O)H, -COOH, halogen, -NR²R², -C₁-₅ thioether or -C₁-₅ alkoxy,

~~wherein if R⁵' is halo, then at least one of R⁴', R⁶' and R⁷' is not hydrogen; or alternatively,~~ wherein at least two of R⁴', R⁵', R⁶', R⁷' are not hydrogen;

Z is -C(=W)NR²R³ or -C(=O)R³;

Y is O or S(O)_n;

each W is independently O; S; -N-CN or -N-OR²;

each R² is independently hydrogen or C₁-₃ alkyl;

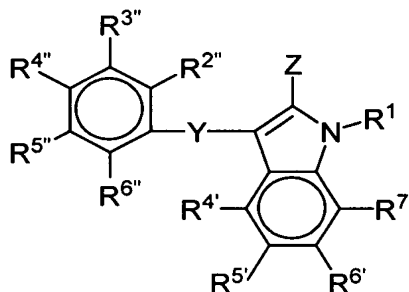
each R³ is independently C₁-₅ alkyl, C₁-₅ alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of C(O)NR²R², -NR²R², -(CH₂)_mC(O)NR²R², -(CH₂)_mC(=W)-NH(CH₂)_p-amino acid);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is independently 0, 1, 2, 3, 4 or 5.

Claim 36 (currently amended): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are each independently H or halo;

$R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H or $-C_{1-5}$ alkyl or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-5}$ thioether or $-C_{1-5}$ alkoxy,

~~wherein if $R^{5''}$ is halo, then at least one of $R^{4''}$, $R^{6''}$ and $R^{7'}$ is not hydrogen; or alternatively,~~ wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is $-C(=W)NR^2R^3$ or $-C(=O)R^3$;

Y is O or $S(O)_n$;

each W is independently O or S;

each R^2 is independently hydrogen or C_{1-3} alkyl;

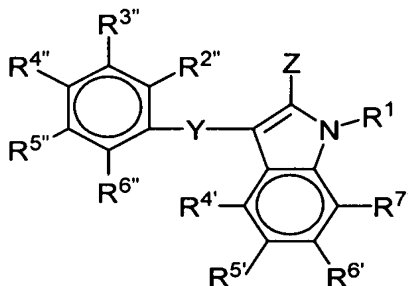
each R^3 is independently C_{1-5} alkyl, C_{1-5} alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of $C(O)NR^2R^2$, $-NR^2R^2$, $-(CH_2)_mC(O)NR^2R^2$, $-(CH_2)_mC(=W)-NH(CH_2)_p$ -amino acid);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is independently 0, 1, 2, 3, 4 or 5.

Claim 37 (previously presented): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are each independently H or halo, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$ or $R^{7'}$ is not hydrogen;

$R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H; halo; $-\text{NO}_2$; $-\text{CN}$; $-\text{OR}^2$; $-\text{NHSO}_2\text{-C}_{1-3}\text{alkyl}$; $-\text{NHCO-C}_{1-3}\text{alkyl}$; oxime, hydrazine, $-\text{C}_{1-5}$ alkyl or alkenyl optionally substituted with one or more of $-\text{OH}$, $-\text{SH}$, $-\text{C(O)H}$, $-\text{COOH}$, halogen, $-\text{NR}^2\text{R}^2$, $-\text{C}_{1-5}$ thioether or $-\text{C}_{1-5}$ alkoxy;

Z is $-\text{C(=W)NR}^2\text{R}^3$ or $-\text{C(=O)R}^3$;

Y is O or S(O)_n ;

each W is independently O; S; $-\text{N-CN}$ or $-\text{N-OR}^2$;

each R^2 is independently hydrogen or C_{1-3} alkyl;

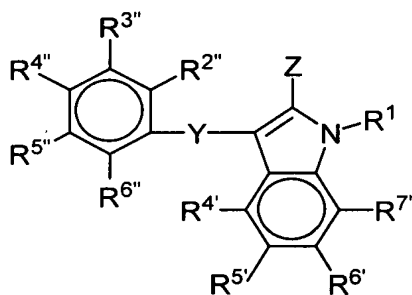
each R^3 is independently C_{1-5} alkyl, C_{1-5} alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of $\text{C(O)NR}^2\text{R}^2$, $-\text{NR}^2\text{R}^2$, $-(\text{CH}_2)_m\text{C(O)NR}^2\text{R}^2$, $-(\text{CH}_2)_m\text{C(=W)-NH(CH}_2)_p\text{-amino acid)}$;

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is independently 0, 1, 2, 3, 4 or 5.

Claim 38 (previously presented): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are each independently H or halo, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$ or $R^{7'}$ is not hydrogen;

$R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H or $-C_{1-5}$ alkyl or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-5}$ thioether or $-C_{1-5}$ alkoxy,

Z is $-C(=W)NR^2R^3$ or $-C(=O)R^3$;

Y is O or $S(O)_n$;

each W is independently O; S; $-N-CN$ or $-N-OR^2$;

each R^2 is independently hydrogen or C_{1-3} alkyl; and

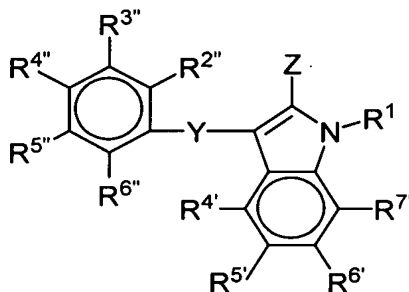
each R^3 is independently C_{1-5} alkyl, C_{1-5} alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of $C(O)NR^2R^2$, $-NR^2R^2$, $-(CH_2)_mC(O)NR^2R^2$, $-(CH_2)_mC(=W)-NH(CH_2)_p$ -amino acid);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is independently 0, 1, 2, 3, 4 or 5.

Claim 39 (previously presented): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are each independently H or halo, wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$ or $R^{7'}$ is not hydrogen;

$R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H or $-C_{1-5}$ alkyl or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-5}$ thioether or $-C_{1-5}$ alkoxy,

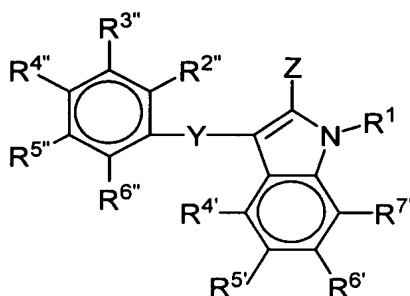
Z is $-C(=O)R^3$;

Y is O or $S(O)_n$;

each W is independently O; S; $-N-CN$ or $-N-OR^2$;

each R^2 is independently hydrogen or C_{1-3} alkyl;
each R^3 is independently C_{1-5} alkyl, C_{1-5} alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of $C(O)NR^2R^2$, $-NR^2R^2$, $-(CH_2)_mC(O)NR^2R^2$, $-(CH_2)_mC(=W)-NH(CH_2)_p$ -amino acid);
each n is independently 0, 1 or 2;
each p is independently 0, 1, 2, 3, 4 or 5; and
each m is 1, 2, 3, 4 or 5.

Claim 40 (currently amended): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:
 R^1 is hydrogen;
 $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are each independently H or halo;
 $R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H or $-C_{1-5}$ alkyl or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-5}$ thioether or $-C_{1-5}$ alkoxy,

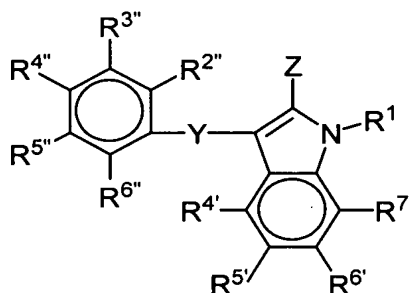
~~wherein if $R^{5'}$ is halo, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively,~~ wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is $-C(=W)NR^2R^3$ or $-C(=O)R^3$;
 Y is O or $S(O)_n$;
each W is independently O;
each R^2 is independently hydrogen or C_{1-3} alkyl;
each R^3 is independently C_{1-5} alkyl, C_{1-5} alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of $C(O)NR^2R^2$, $-NR^2R^2$, $-(CH_2)_mC(O)NR^2R^2$, $-(CH_2)_mC(=W)-NH(CH_2)_p$ -amino acid);
each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is 1, 2, 3, 4 or 5.

Claim 41 (previously presented): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R¹ is hydrogen;

R^{4'}, R^{5'}, R^{6'}, R^{7'} are each independently H or halo, wherein at least two of R^{4'}, R^{5'}, R^{6'} or R^{7'} is not hydrogen;

R^{2''}, R^{3''}, R^{4''}, R^{5''} and R^{6''} are each independently H or -C₁₋₅ alkyl or alkenyl optionally substituted with one or more of -OH, -SH, -C(O)H, -COOH, halogen, -NR²R², -C₁₋₅ thioether or -C₁₋₅ alkoxy,

Z is -C(=W)NR²R³;

Y is O or S(O)_n;

each W is independently O or S;

each R² is independently hydrogen or C₁₋₃ alkyl;

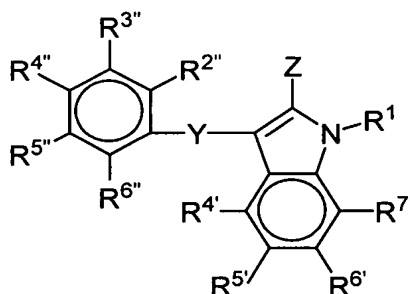
each R³ is independently C₁₋₅ alkyl, C₁₋₅ alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of C(O)NR²R², -NR²R², -(CH₂)_mC(O)NR²R², -(CH₂)_mC(=W)-NH(CH₂)_p-amino acid);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is 1, 2, 3, 4 or 5.

Claim 42 (currently amended): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

$R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are each independently H or halo;

$R^{2''}$, $R^{3''}$, $R^{4''}$, $R^{5''}$ and $R^{6''}$ are each independently H or $-C_{1-5}$ alkyl or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-5}$ thioether or $-C_{1-5}$ alkoxy,

~~wherein if $R^{5''}$ is halo, then at least one of $R^{4'}$, $R^{6'}$ and $R^{7'}$ is not hydrogen; or alternatively,~~ wherein at least two of $R^{4'}$, $R^{5'}$, $R^{6'}$, $R^{7'}$ are not hydrogen;

Z is $-C(=W)NR^2R^3$;

Y is $S(O)_n$;

each W is independently O;

each R^2 is independently hydrogen or C_{1-3} alkyl;

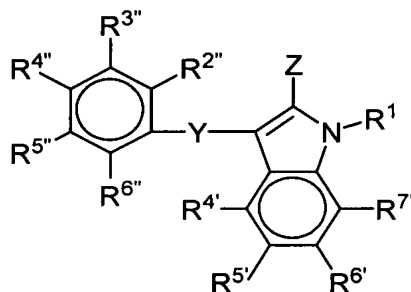
each R^3 is independently C_{1-5} alkyl, C_{1-5} alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of $C(O)NR^2R^2$, $-NR^2R^2$, $-(CH_2)_mC(O)NR^2R^2$, $-(CH_2)_mC(=W)-NH(CH_2)_p$ -amino acid);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is 1, 2, 3, 4 or 5.

Claim 43 (currently amended): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R¹ is hydrogen;

R⁴', R⁵', R⁶', R⁷' are each independently H or halo;

R²'', R³'', R⁴'', R⁵'' and R⁶'' are each independently H; halo; -NO₂; -CN; -OR²;
-NHSO₂-C₁-₃alkyl; -NHCO-C₁-₃alkyl; oxime, hydrazine, -C₁-₅ alkyl or alkenyl optionally
substituted with one or more of -OH, -SH, -C(O)H, -COOH, halogen, -NR²R², -C₁-₅ thioether
or -C₁-₅ alkoxy,

~~wherein if R⁵' is halo, then at least one of R⁴', R⁶' and R⁷' is not hydrogen; or
alternatively, wherein at least two of R⁴', R⁵', R⁶', R⁷' are not hydrogen;~~

Z is -C(=O)R³;

Y is S(O)ₙ;

each W is independently O;

each R² is independently hydrogen or C₁-₃ alkyl;

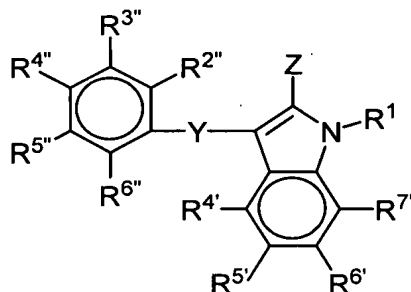
each R³ is independently C₁-₅ alkyl, C₁-₅ alkenyl, aryl or heterocycle unsubstituted or
substituted with one or more of C(O)NR²R², -NR²R², -(CH₂)ₘC(O)NR²R²,
-(CH₂)ₘC(=W)-NH(CH₂)ₚ-amino acid);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is 1, 2, 3, 4 or 5.

Claim 44 (previously presented): A method for the treatment of an HIV infection in a host
comprising administering to said host an effective anti-HIV treatment amount of a compound
of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

R^4 , R^5 , R^6 , R^7 are independently H or halo, wherein at least two of R^4 , R^5 , R^6 or R^7 is not hydrogen;

R^2 , R^3 , R^4 , R^5 and R^6 are each independently H; halo; $-NO_2$; $-CN$; $-OR^2$; $-NHSO_2-C_{1-3}alkyl$; $-NHCO-C_{1-3}alkyl$; oxime, hydrazine, $-C_{1-5}alkyl$ or alkenyl optionally substituted with one or more of $-OH$, $-SH$, $-C(O)H$, $-COOH$, halogen, $-NR^2R^2$, $-C_{1-5}thioether$ or $-C_{1-5}alkoxy$,

Z is $-C(=O)R^3$;

Y is O or $S(O)_n$;

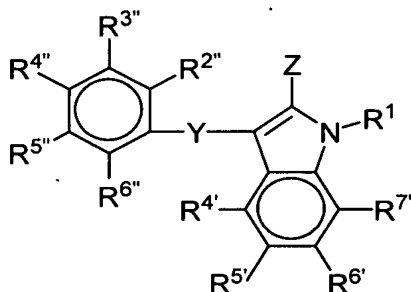
each W is independently O;

each R^2 is independently hydrogen or $C_{1-3}alkyl$; and

each R^3 is independently $C_{1-5}alkyl$, $C_{1-5}alkenyl$, aryl or heterocycle unsubstituted or substituted with one or more of $C(O)NR^2R^2$, $-NR^2R^2$, $-(CH_2)_mC(O)NR^2R^2$, $-(CH_2)_mC(=W)-NH(CH_2)_p-amino\ acid$);
each n is independently 0, 1 or 2;
each p is independently 0, 1, 2, 3, 4 or 5; and
each m is 1, 2, 3, 4 or 5.

Claim 45 (previously presented): The method of any one of claims 19 or 24 wherein R^1 is hydrogen.

Claim 46 (previously presented): A method for the treatment of an HIV infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of formula (I):



or a pharmaceutically acceptable salt thereof, wherein:

R^1 is hydrogen;

R^4 , R^5 , R^6 , R^7 are each independently H or halo, wherein at least two of R^4 , R^5 , R^6 or R^7 is not hydrogen;

R^2 , R^3 , R^4 , R^5 and R^6 are each independently H or C_{1-5} alkyl or alkenyl optionally substituted with one or more of -OH, -SH, -C(O)H, -COOH, halogen, -NR²R², -C₁₋₅ thioether or -C₁₋₅ alkoxy,

Z is -C(=W)NR²R³;

Y is O or S(O)_n;

each W is independently O;

each R² is independently hydrogen or C₁₋₃ alkyl; and

each R³ is independently C₁₋₅ alkyl, C₁₋₅ alkenyl, aryl or heterocycle unsubstituted or substituted with one or more of C(O)NR²R², -NR²R², -(CH₂)_mC(O)NR²R², -(CH₂)_mC(=W)-NH(CH₂)_p-amino acid);

each n is independently 0, 1 or 2;

each p is independently 0, 1, 2, 3, 4 or 5; and

each m is 1, 2, 3, 4 or 5.

Claims 47-48 (Cancelled)

Claim 49 (previously presented): The method of any one of claims 19 or 24 wherein Z is -C(=O)NH₂; -C(=W)-NH₂; -C(=O)NHR²; -C(=W)NHR²; -C(=O)NR²R³; -C(=W)NR²R³; -C(=W)NH(CH₂)_p-(amino acid); -C(=O)R³; -C(=O)OR³; -C(=O)OH; -C(=W)OH; -C(=O)OR²; -C(=W)-OR².

Claim 50 (previously presented): The method of any one of claims 19 or 24 wherein Z is -C(=O)NH₂; -C(=O)NHR² or -C(=O)NR²R³.

Claim 51 (previously presented): The method of any one of claims 19 or 24 wherein Y is SO₂.

Claim 52 (previously presented): The method of any one of claims 19 or 24 wherein R^{4'}, R^{5'}, R^{6'} and R^{7'} are each independently H or halo.

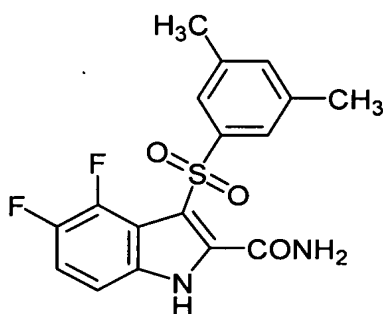
Claim 53 (previously presented): The method of any one of claims 19 or 24 wherein at least two of R^{4'}, R^{5'}, R^{6'}, R^{7'} are not hydrogen.

Claim 54 (previously presented): The method of any one of claims 19 or 24 wherein R^{2''}, R^{3''}, R^{4''}, R^{5''} and R^{6''} are each independently optionally substituted or unsubstituted branched or unbranched alkyl, alkenyl or alkynyl.

Claim 55 (previously presented): The method of any one of claims 19 or 24 wherein R^{2''}, R^{3''}, R^{4''}, R^{5''} and R^{6''} are each independently unsubstituted unbranched alkyl.

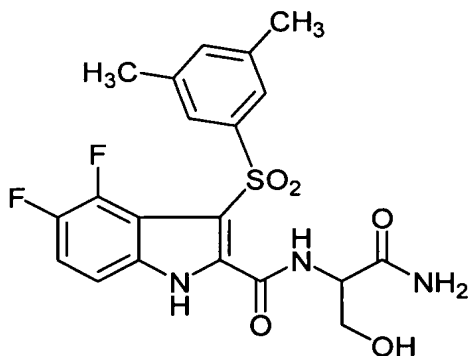
Claim 56 (previously presented): The method of any one of claims 19 or 24 wherein R¹ is hydrogen.

Claim 57 (previously presented): The A method of any one of claims 19 or 24 for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound wherein the compound is a compound of the formula



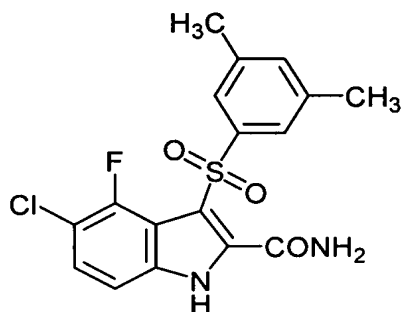
or a pharmaceutically acceptable salt thereof.

Claim 58 (previously presented): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of the formula



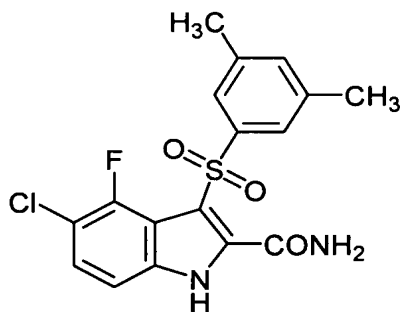
or a pharmaceutically acceptable salt thereof.

Claim 59 (previously presented): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of the formula



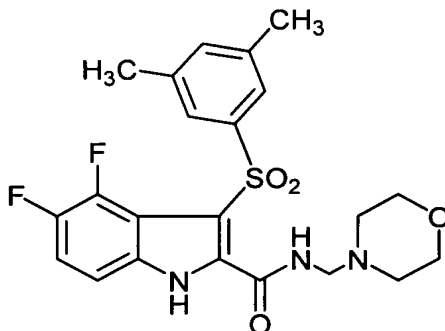
or a pharmaceutically acceptable salt thereof.

Claim 60 (previously presented): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of the formula



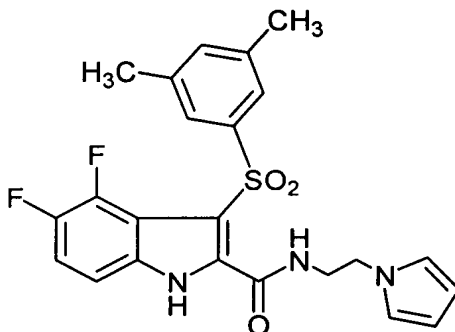
or a pharmaceutically acceptable salt thereof.

Claim 61 (previously presented): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of the formula



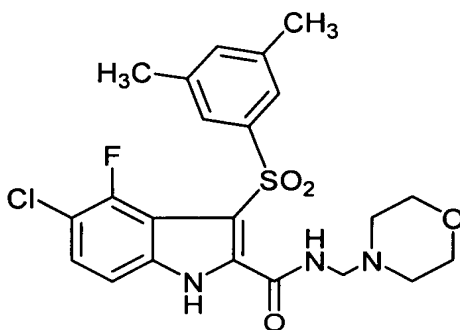
or a pharmaceutically acceptable salt thereof.

Claim 62 (previously presented): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of the formula



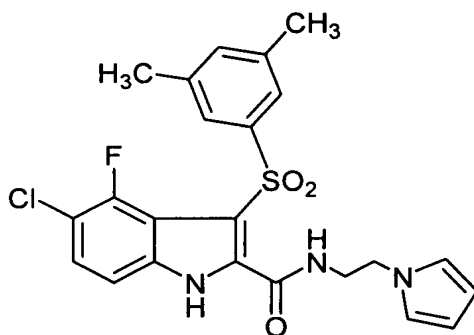
or a pharmaceutically acceptable salt thereof.

Claim 63 (previously presented): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of the formula



or a pharmaceutically acceptable salt thereof.

Claim 64 (previously presented): A method for the treatment of an HIV-infection in a host comprising administering to said host an effective anti-HIV treatment amount of a compound of the formula



or a pharmaceutically acceptable salt thereof.

Claim 65 (previously presented): The method of any one of claims 57-64, wherein the HIV is resistant to one or more reverse transcriptase inhibitor (s), in combination and/or alternation with one or more other anti-HIV agent, optionally in a pharmaceutically acceptable carrier or diluent.